

Section IV – Monitoring, Evaluating, and Reporting Progress

A. PROCESS

An important aspect of hazard mitigation is the ongoing evaluation of a community's vulnerability to hazards and its capability to deal with them when they occur. The Hazard Mitigation Plan must be reviewed on a regular basis in order to assess its effectiveness in dealing with the hazards the Town has experienced and expects to experience. The procedure for this review will include monitoring the implementation of the mitigation policies as well as updating the vulnerability assessment and community capability assessment.

B. MONITORING OF POLICIES

In Section III – Mitigation Strategies and Policies, the responsible party, target completion date, and monitoring or evaluation indicator were established for each of the policies. (See Mitigation Action Plan) In each case, the responsible party listed is one of the Town's departments. It will be the responsibility of each department director to monitor the implementation of the policies under its jurisdiction on an annual basis and prepare a report to be reviewed by the Advisory Committee at its annual meeting. –This report should contain each policy, project(s) associated with implementation of the policy, progress made on implementation, and any comments or proposed revisions to the plan as a result of the findings.

C. UPDATING OF VULNERABILITY AND COMMUNITY CAPABILITY ASSESSMENTS

In addition to assessing the implementation of the action portion of the plan, the Town must also update the vulnerability assessment and community capability as needed. The Town of Knightdale has experienced significant growth in the last two (2) decades and expects to continue to grow in the future. The completion of two major transportation projects in the vicinity of the Town has brought more development, both residential and commercial, to the area. As development increases, so does the Town's vulnerability; and the Town's continued ability to deal with hazards will need to be addressed.



It will be the responsibility of the Advisory Committee to update the vulnerability assessment on an as-needed basis. If the Town continues to experience the growth it has enjoyed in recent years, the number of people and structures under the Town's jurisdiction will increase. Large increases in population and/or development should result in updates to the vulnerability assessment. In addition, widespread zoning changes which would allow for more dense development should be incorporated into the updates because they would increase the future vulnerability of the Town. Completion of any projects resulting in critical infrastructure or critical facilities should also be noted.

It will also be the responsibility of the Advisory Committee to update the community capability assessment on an as-needed basis. Major changes in staff and organizational capability or technical capability should be noted. In addition, revisions to any of the policies and programs utilized by the Town should be included. Any further revisions to the North Carolina Building Code and National Flood Insurance Program also need to be included as well as changes in legal capability, fiscal capability, and political climate.

Since the previous plan was adopted in 2004, the Town of Knightdale has undergone several major changes of significant note for these assessments regarding size, development standards and the provision of public services to the citizens of Knightdale, including the following:

1. Expanded its corporate limits from 3.88 square miles to 6.11 square miles.
2. Expanded its overall planning jurisdiction from 13.44 square miles to 20.95 square miles.
3. Increased its population from 7,325 citizens to 10,058 citizens.
4. Became a participant in the National Pollutant Discharge Elimination System (NPDES) Phase II in June of 2005, resulting in more stringent stormwater control ordinances.
5. Adopted new FEMA Digital Flood Insurance Rate Maps and associated Flood Damage Prevention Ordinance in May of 2006.
6. Merged its water and sewer utility system with the City of Raleigh's public utility system in May of 2006, transferring ownership, control and maintenance of the utility system to the City of Raleigh.
7. Adopted a completely revised Unified Development Ordinance in November of 2005 that is intended to guide the Town's development by



preserving the natural environment and mitigating the impact of natural hazards on the built environment.

D. PLAN MAINTENANCE REPORT

It will be the responsibility of the Planning Department to compile and maintain the monitoring reports and any updates to the vulnerability assessment and community capability assessment in order that the Advisory Committee may prepare a plan maintenance report to summarize the progress of the plan and recommend updates to the plan. This report should be prepared annually and submitted to the Town Manager as well as posted on the Town's website, the Town's electronic newsletter and in Town Hall for review and comment by the public. Any public comments on the report will be forwarded to the Planning Department. A notice of the posting of the report will be made in the Eastern Wake News, and included in the Town's E-View Weekly.

E. 2009 PROGRESS OVERVIEW

The Advisory Committee, with input from local government agencies, concerned citizens, and state and local officials, used the following process to give a comprehensive review and evaluation of each section of the previously approved Knightdale Hazard Mitigation Plan. The process included a comprehensive review of the 2007 North Carolina State Hazard Mitigation Plan to evaluate the consistency of the Knightdale Hazard Mitigation Plan with the State Plan.

The Advisory Committee followed the process specified in the Maintenance Section of the previously approved plan for monitoring, evaluating and updating the plan. As specified in that section, the Committee met on August 8, 2008 and addressed the following questions to assess the previously approved plan:

- Do the goals and objectives address current and expected conditions?
- Has the nature or magnitude of risk changed?
- Are current resources sufficient for implementing the plan?
- Are there implementation issues, such as technical, political, legal or coordination issues with other agencies?
- Have the outcomes occurred as expected?
- Did the agencies and other partners participate in the planning process as proposed?



The answers to these questions were derived through consensus, and are contained in Appendix C to the mitigation plan update.

In addition, the Advisory Committee reviewed information contained in other relevant progress reporting documents, including the results of the Community Assistance Visit(s) (CAV) conducted by representatives of the National Flood Insurance Program on [date(s)], that evaluate whether the Town of Knightdale is adequately enforcing its floodplain management regulations. The results of the CAV(s) are contained in Appendix D to the mitigation plan update.

The Advisory Committee reviewed the risk assessment of the previously approved plan and made adjustments as indicated in the plan update document and as referenced in the Mitigation Plan Update Checklist. The following new plans, studies, reports, and technical information that have become available since the previously approved plan was adopted were reviewed and incorporated into the Plan Update:

- FEMA Digital Flood Insurance Rate Maps
- Town of Knightdale Unified Development Ordinance
- Flood Damage Prevention Ordinance
- NPDES Phase II Stormwater Control Ordinance.

The Advisory Committee also reviewed the Goal Section of the previously approved plan, and concluded that the goal statements continue to meet the mitigation needs of the Town of Knightdale OR no longer meet the mitigation needs of the Town of Knightdale and have been revised accordingly. The goal statements of the Mitigation Plan Update appear in the Goal Section of this document.

The Advisory Committee also reviewed the Mitigation Action Section of the previously approved plan, and identified the actions that had been completed. These actions, along with the date of completion, responsible party, funding source used, and outcome for mitigation appear in Section III, Part B to the Plan Update. Actions completed include the preparation and adoption of the original Hazard Mitigation Plan, presentation of the original Plan at a Public Meeting, the 2009 revision of the Plan, and updating the Emergency Response Plan. Ongoing accomplishments include keeping evacuation routes open during hazards,



maintaining the water supply system and sewer lift stations, requiring the disclosure of flood hazards in real estate transactions, monitoring areas that frequently flood and engaging in discussions with affected property owners, letting the public know that flood maps are available on paper in the Planning Department and online with Wake County's website, enforcing our Unified Development Ordinance standards for development in flood hazard areas, requiring floodproofing of structures requesting substantial improvements, requiring the burial of power lines for new development, and requiring new construction to comply with the wind section of the Building Code. Work on many of the other actions in Section III, Part B, has been hampered by the complete turnover in Town personnel associated with the Hazard Mitigation Plan between 2004 and 2009. Unfortunately, a transfer of knowledge concerning the Plan was not achieved and many of the actions beyond the regular day-to-day duties of Town personnel did not achieve much headway.

Actions that have been deleted or deferred, along with the reason for their deletion or deferment also appear in Section III Part B to the Plan Update. Actions determined to be still viable options for the community have been carried over into the Plan Update and are included on the Mitigation Action Section.

